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**From:** Clark, Rayr [clark.rayr@epa.gov]  
**Sent:** 1/31/2019 5:37:35 PM  
**To:** Smith, Glynda [Smith.Glynda@epa.gov]; Karapondo, Michella [Karapondo.Michella@epa.gov]; Hautman, Dan [Hautman.Dan@epa.gov]; Brisbin, Judy [Brisbin.Judy@epa.gov]  
**CC:** Clarage, Meredith [Clarage.Meredith@epa.gov]; Humphrey, Marvelyn [humphrey.marvelyn@epa.gov]; Quinones, Rebecca [quinones.rebecca@epa.gov]; Katie Seely, Ph.D. [Katie.Seely@arkansas.gov]  
**Subject:** FW: Extraction Disk vs Cartridges  
**Attachments:** EPA Method 549.2.pdf  
  
**Importance:** High

Technical question from ADH in Region 6.

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**From:** Katie Seely, Ph.D. <Katie.Seely@arkansas.gov>  
**Sent:** Thursday, January 31, 2019 11:22 AM  
**To:** Clark, Rayr <clark.rayr@epa.gov>  
**Subject:** Extraction Disk vs Cartridges  
**Importance:** High

Hi Ray,

Good speaking with you a few minutes ago.

As I mentioned, we are having major issues with 549.2 since 3M is no longer making the C8 extraction disks. We have tried other disks but have no luck. We are at the point where we can no longer run samples and must cease testing.

This week, we had Thermo on site developing an extraction protocol for 549.2 using their system and C8 extraction cartridges. The recoveries were low. Then, the Thermo techs found a technical note from Phenomenex (which we are trying the Phenomenex cartridges as we speak) that says the way to increase recovery is to treat the cartridges the same as the disks. You see, in the 549.2 method, the disks have about 1 mL of methanol on top, which is collected with the sample. But, the method states to not collect the 1 mL of methanol using the cartridges. When we collect the methanol using the cartridges (like in the attached tech note) the recoveries are great.

Can we use this slight modification to the method since this is the way we've been treating our extraction disks?

Also, we are in a time crunch. The system is on-site and we can keep the current system if we agree to purchase the system. But, I'm not sure if the system will work for us since this is a change to the method. If they leave with the system, it could be at least a month before we can get another on-site, if we are approved to do the modification. If not, we are at square one and will have to cease testing indefinitely.

Help!

Katie

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